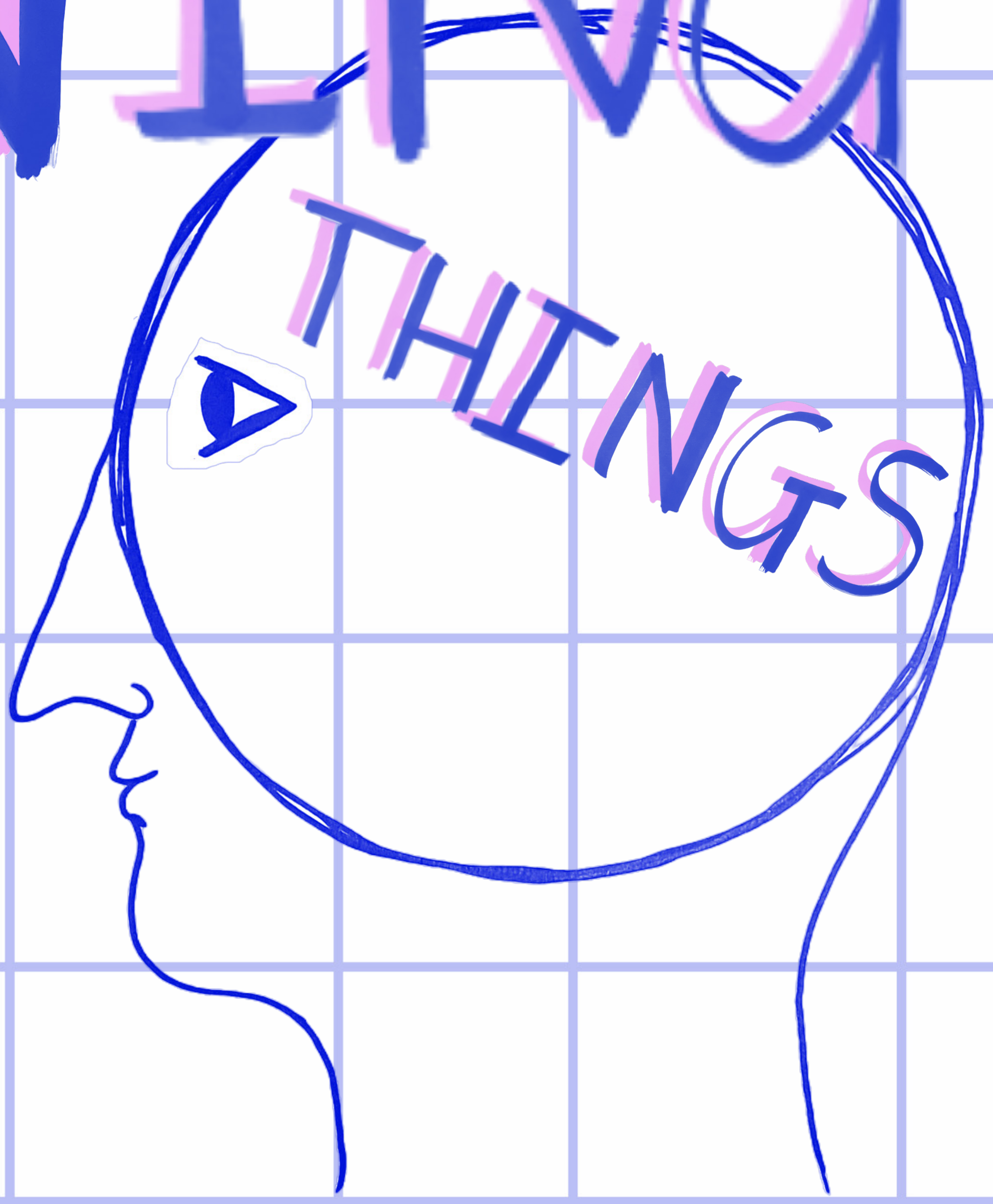
THE RECKONING OF



INTRODUCTION

This treatise outlines the order of the universe and how it applies to life. It is intended to help develop and share new or rediscovered understandings and to be used to think about and plan for the future.

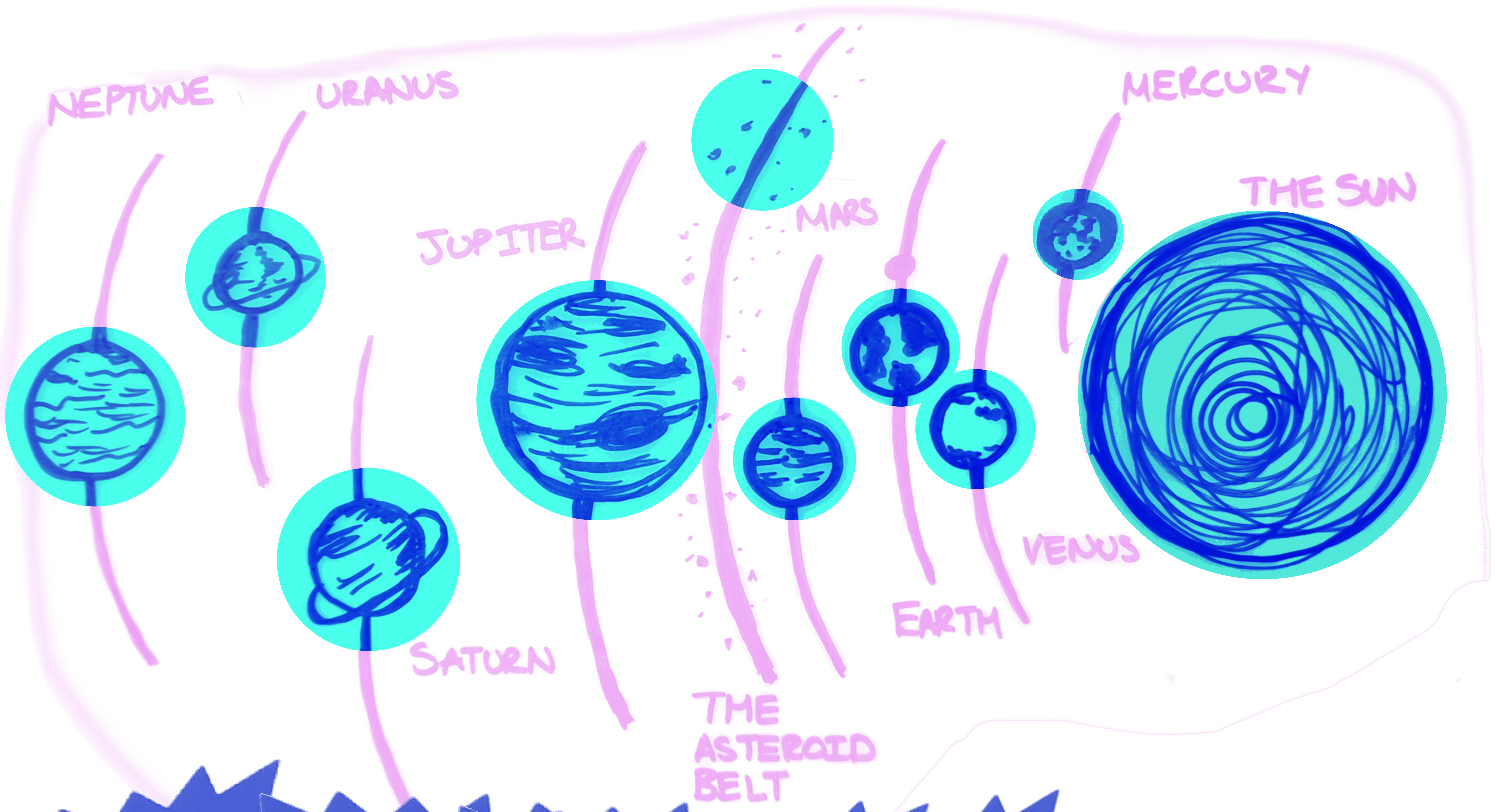
It is based on the knowledge and research still available in the buildings of Durham University and Cathedral post fall. These places were sought out as they are locations for sharing and development of knowledge and significant centers for the development of scientific knowledge throughout history.

The first section focuses on the pre fall knowledge of the patterns and rhythms of the world and the order of the universe. Including how humanity knows some of the fundamentals of this.

The second section focuses on how this order can be used as a basis to allow people to organise, in particular to understand time and future time. It details some of the elaborate systems for the organisation and quantification of things and time apparently used in the pre fall era.

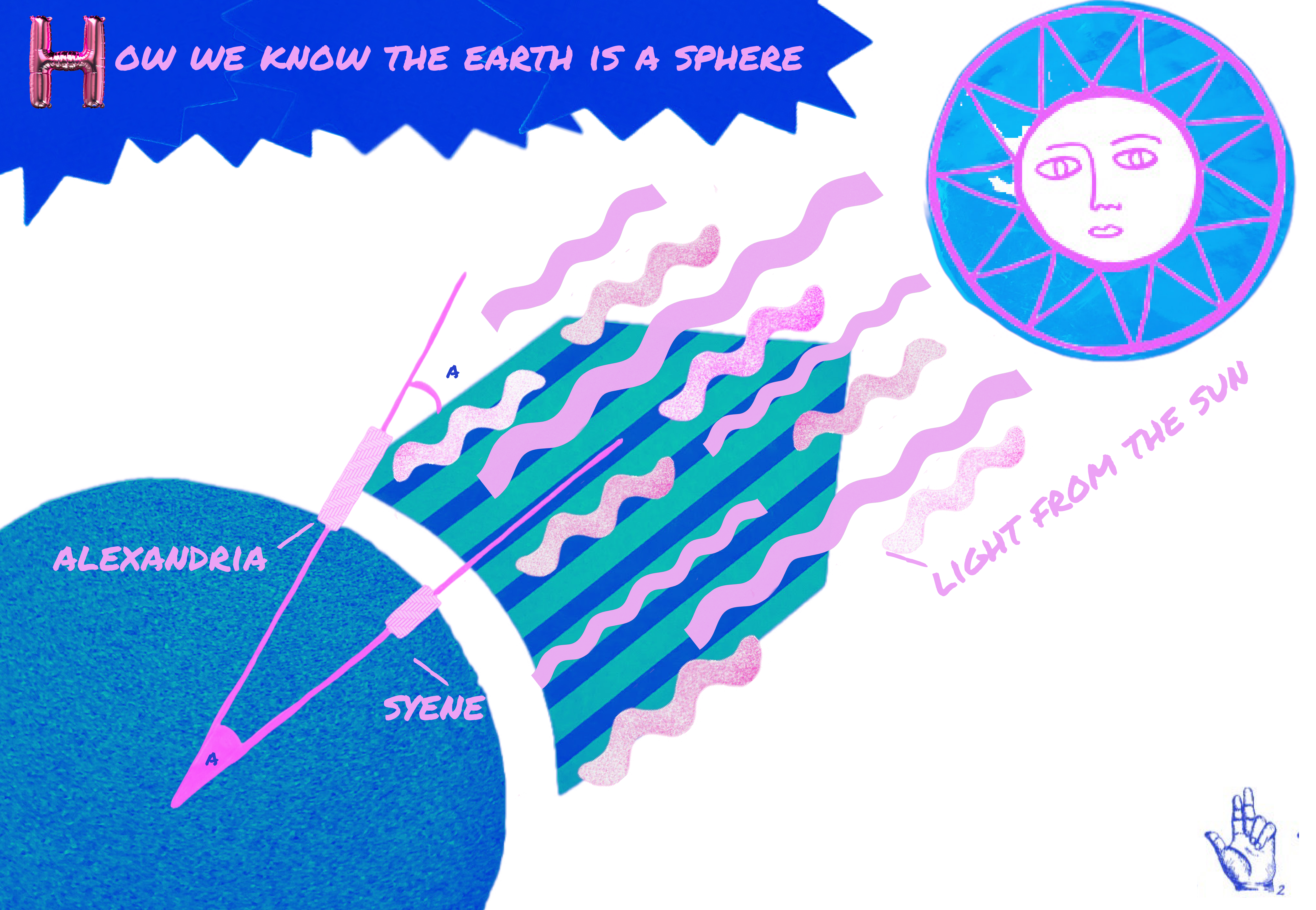
It is these systems for quantification and sharing of knowledge which need to be implemented or readopted to support our recovery.

Please share widely

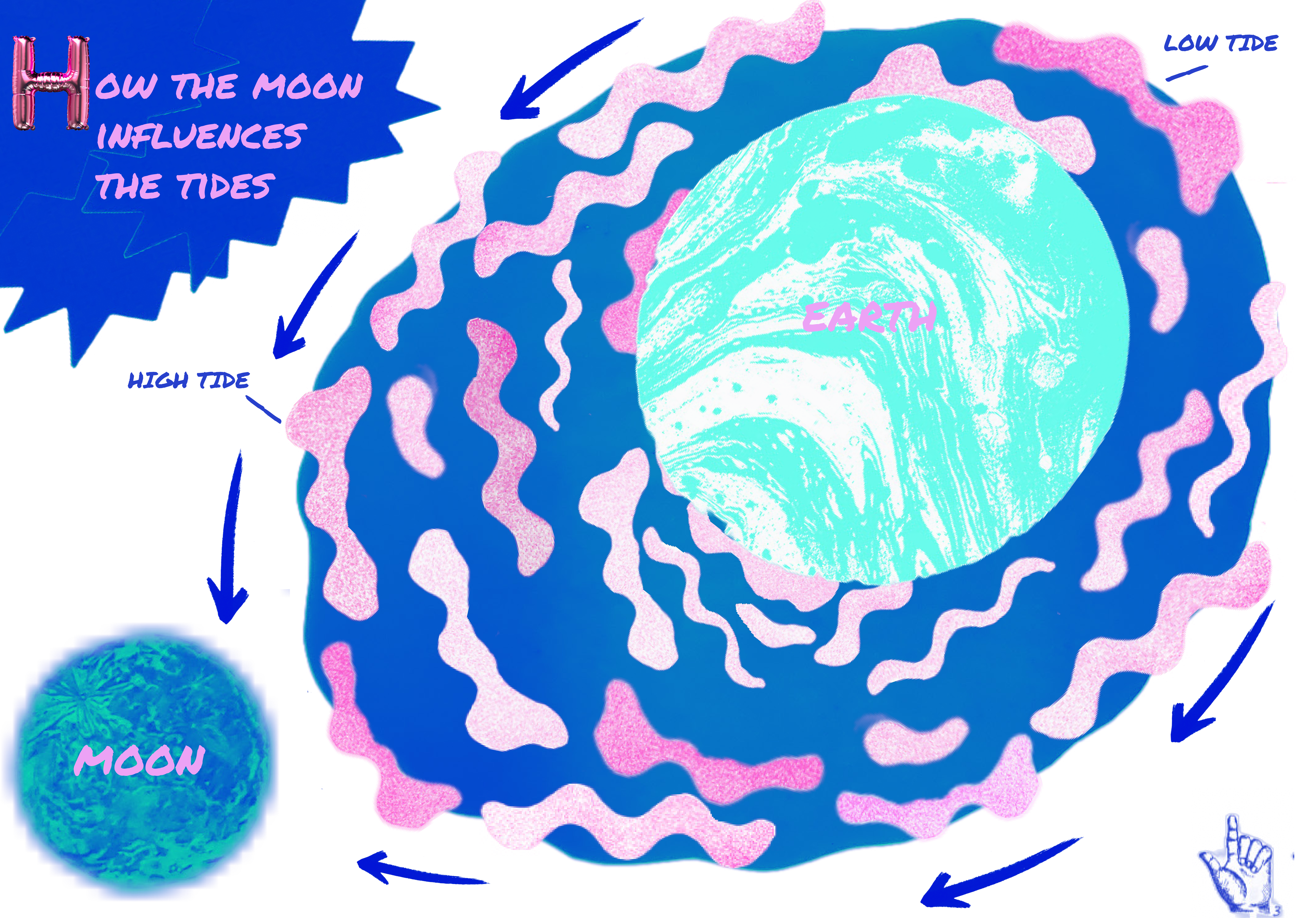


HOW THE SOLAR SYSTEM IS ORDERED

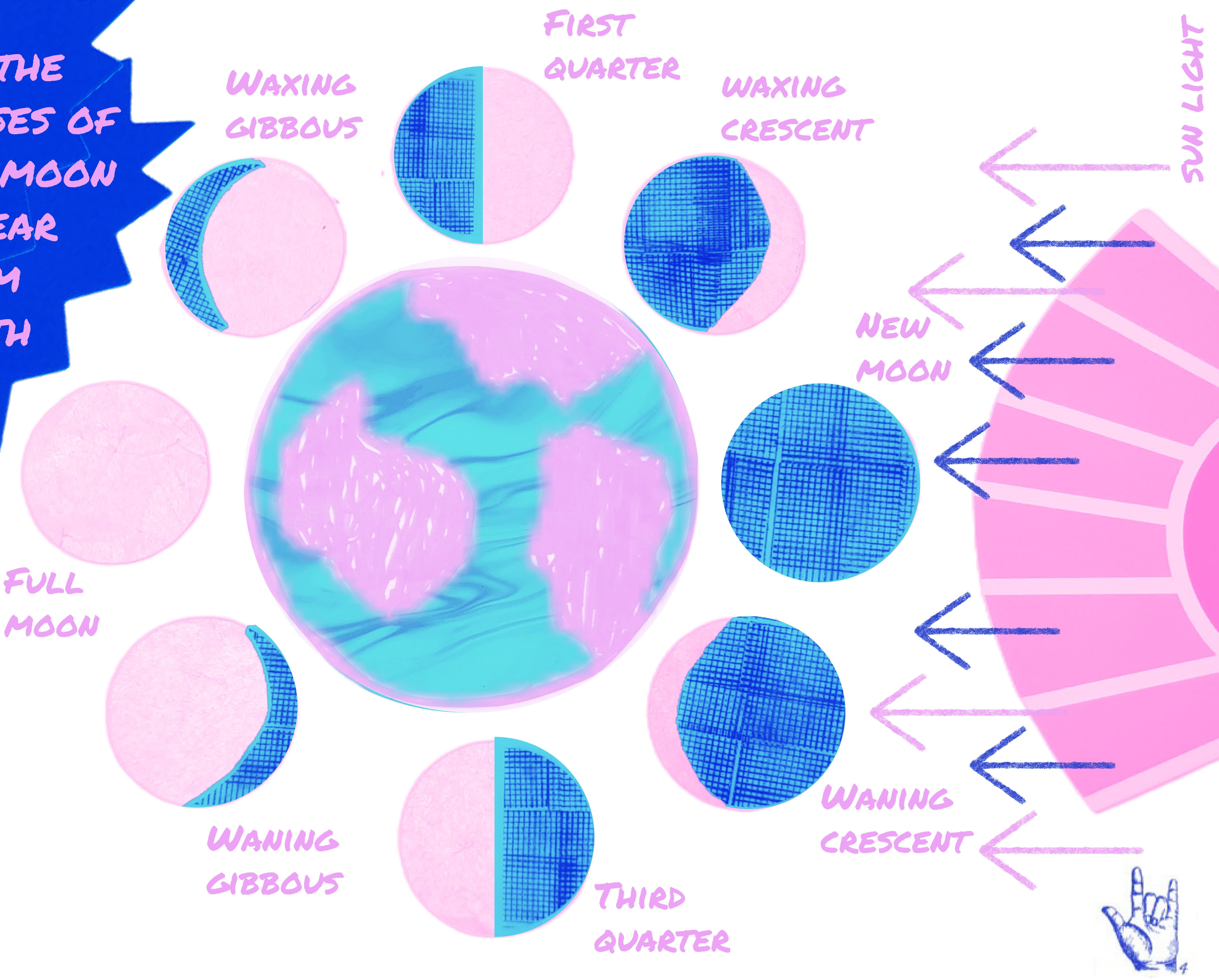
HOW WE KNOW THE EARTH IS A SPHERE

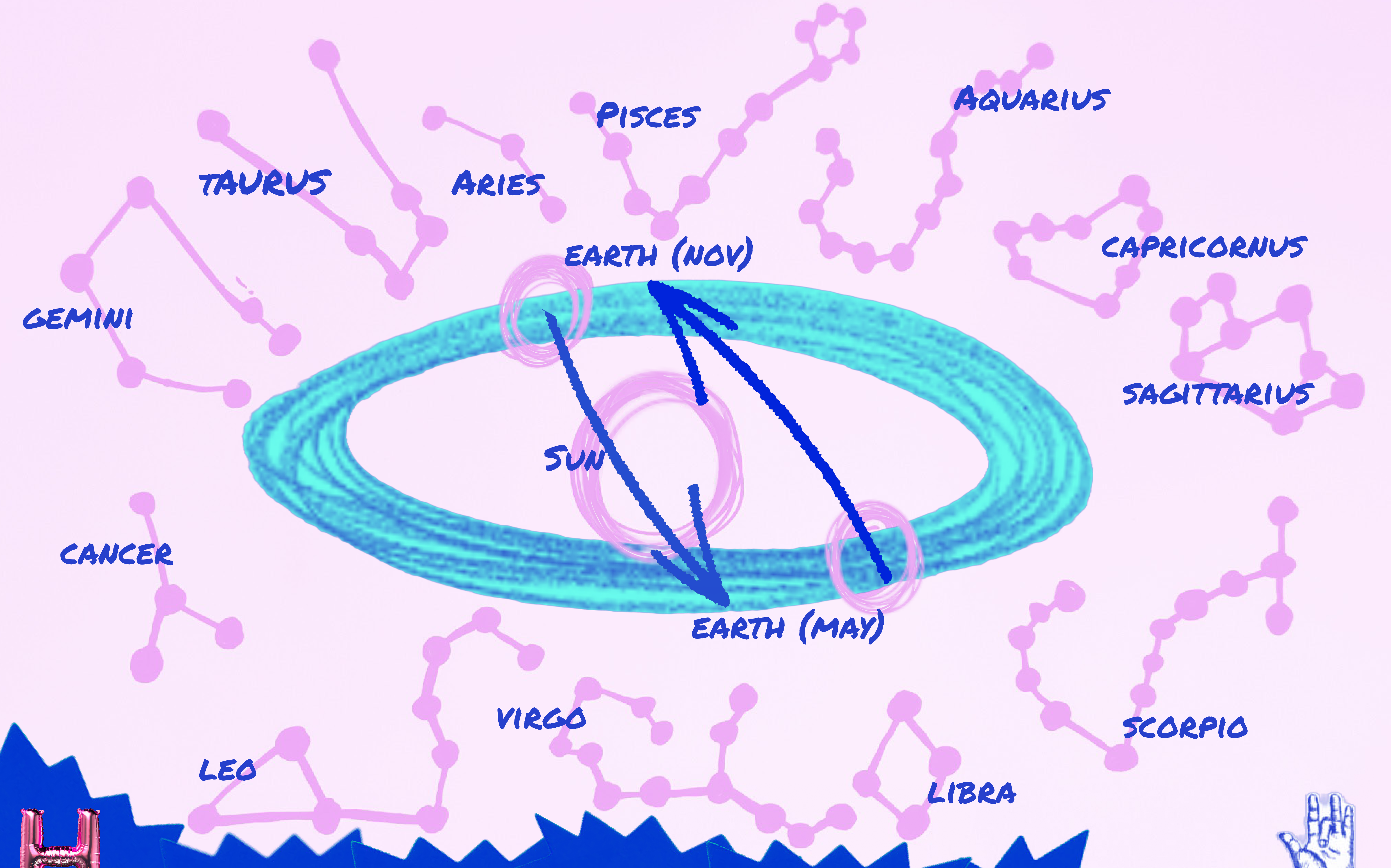


HOW THE MOON INFLUENCES THE TIDES



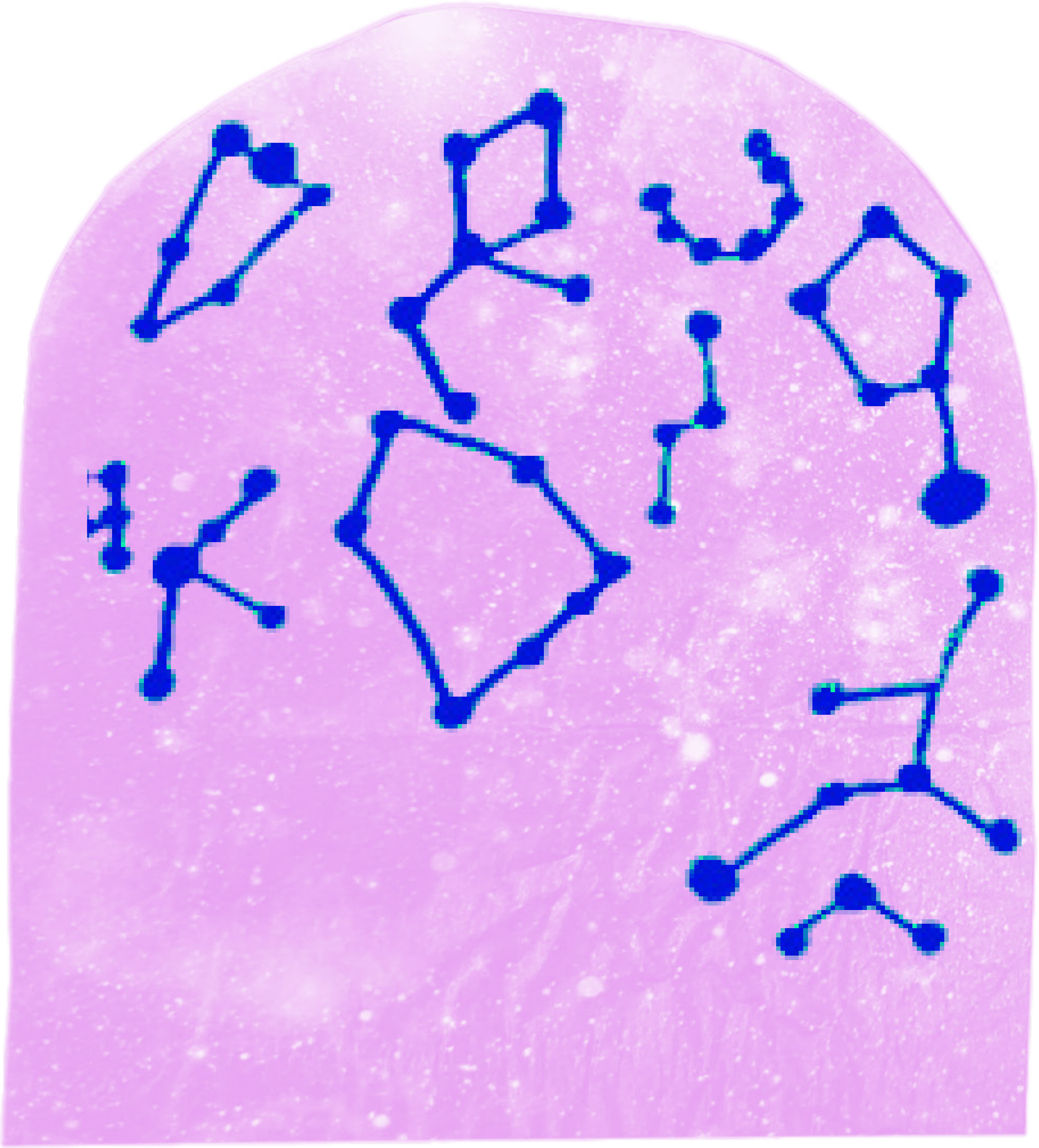
How the phases of the moon appear from Earth



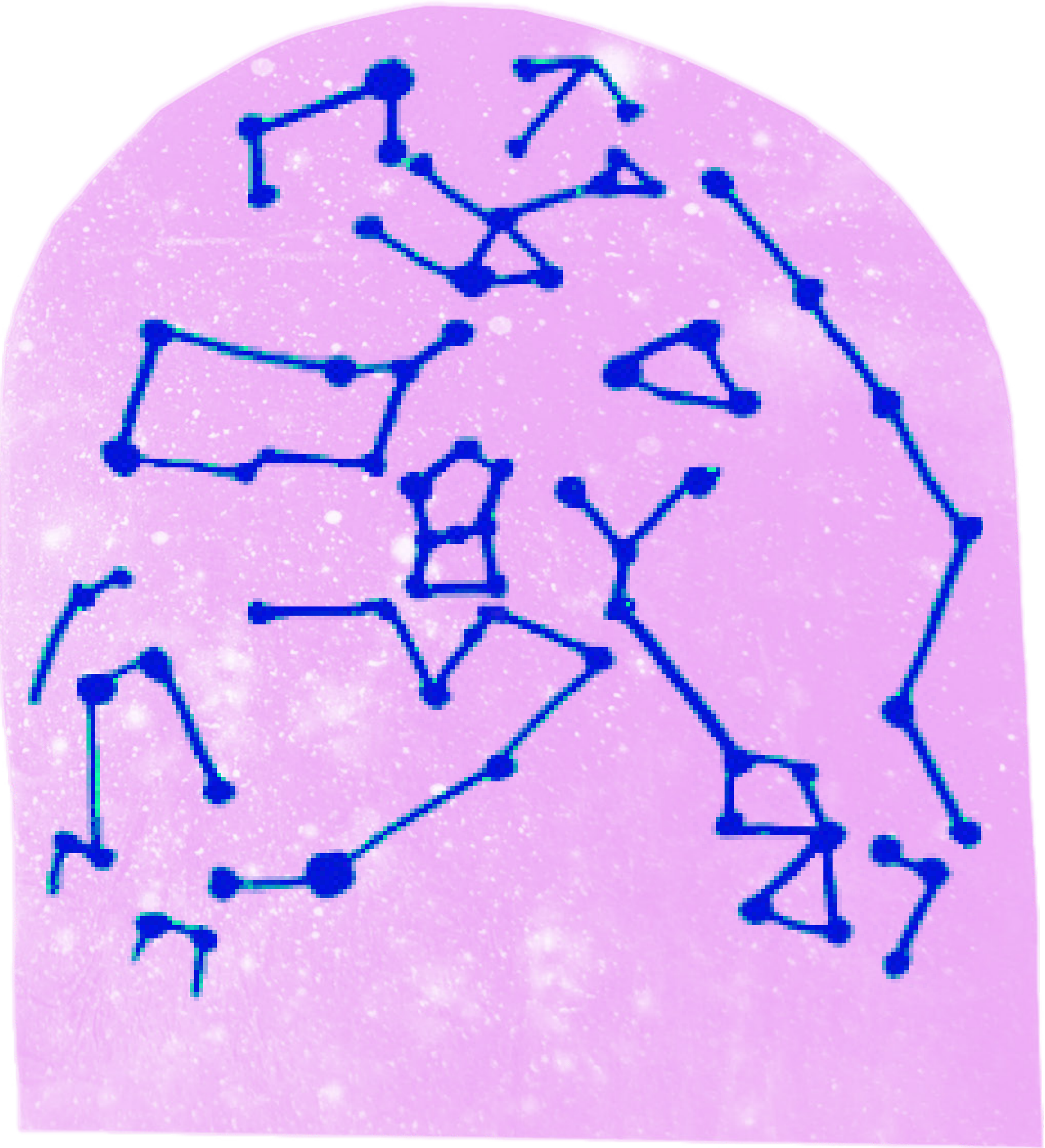


HOW THE ELLIPTIC IS THE PROJECTION OF THE EARTH'S ORBIT

How the stars appear as the earth orbits the sun

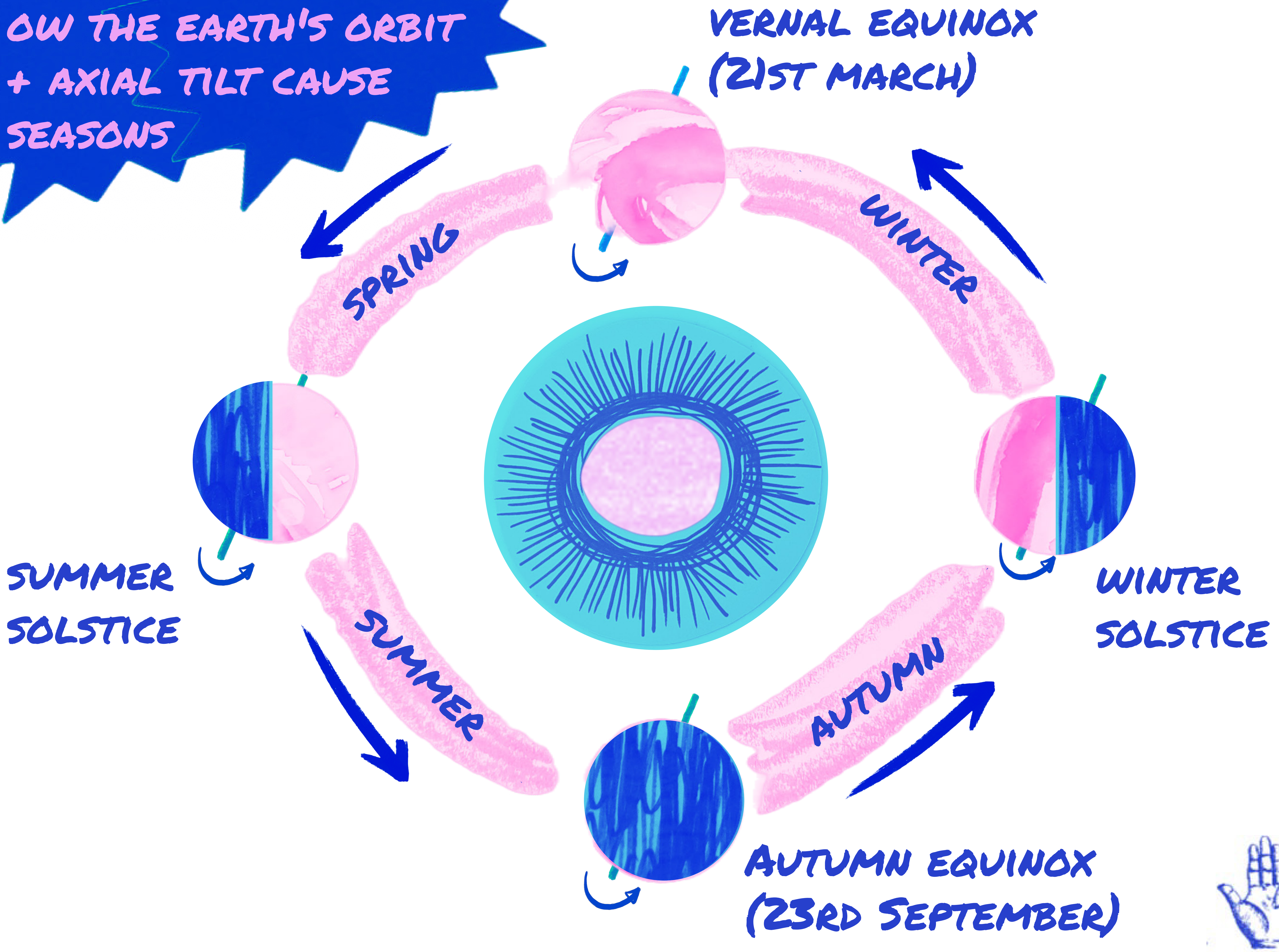


The night sky in June
looking south over London

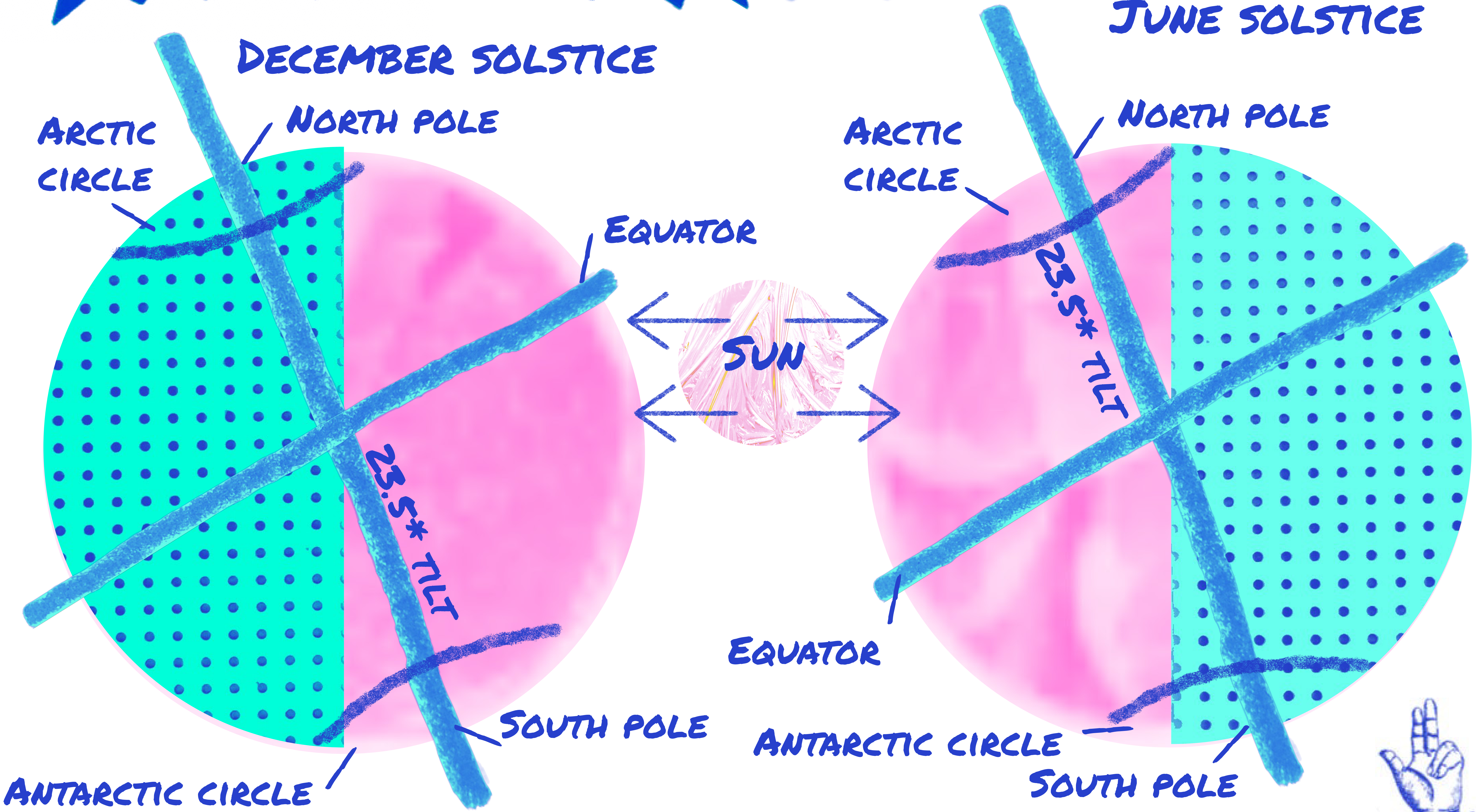


The night sky in December
looking south over London

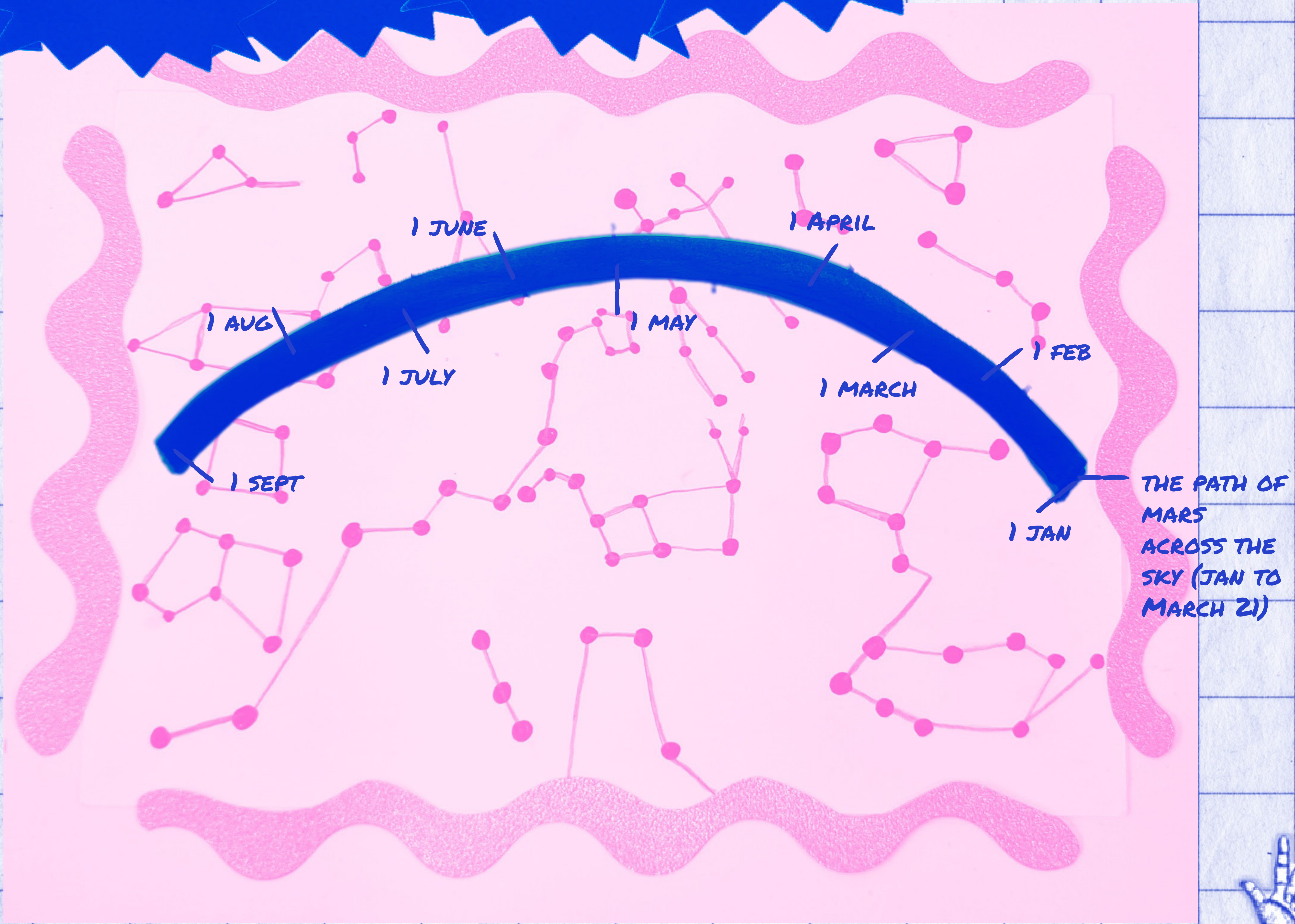
HOW THE EARTH'S ORBIT + AXIAL TILT CAUSE SEASONS



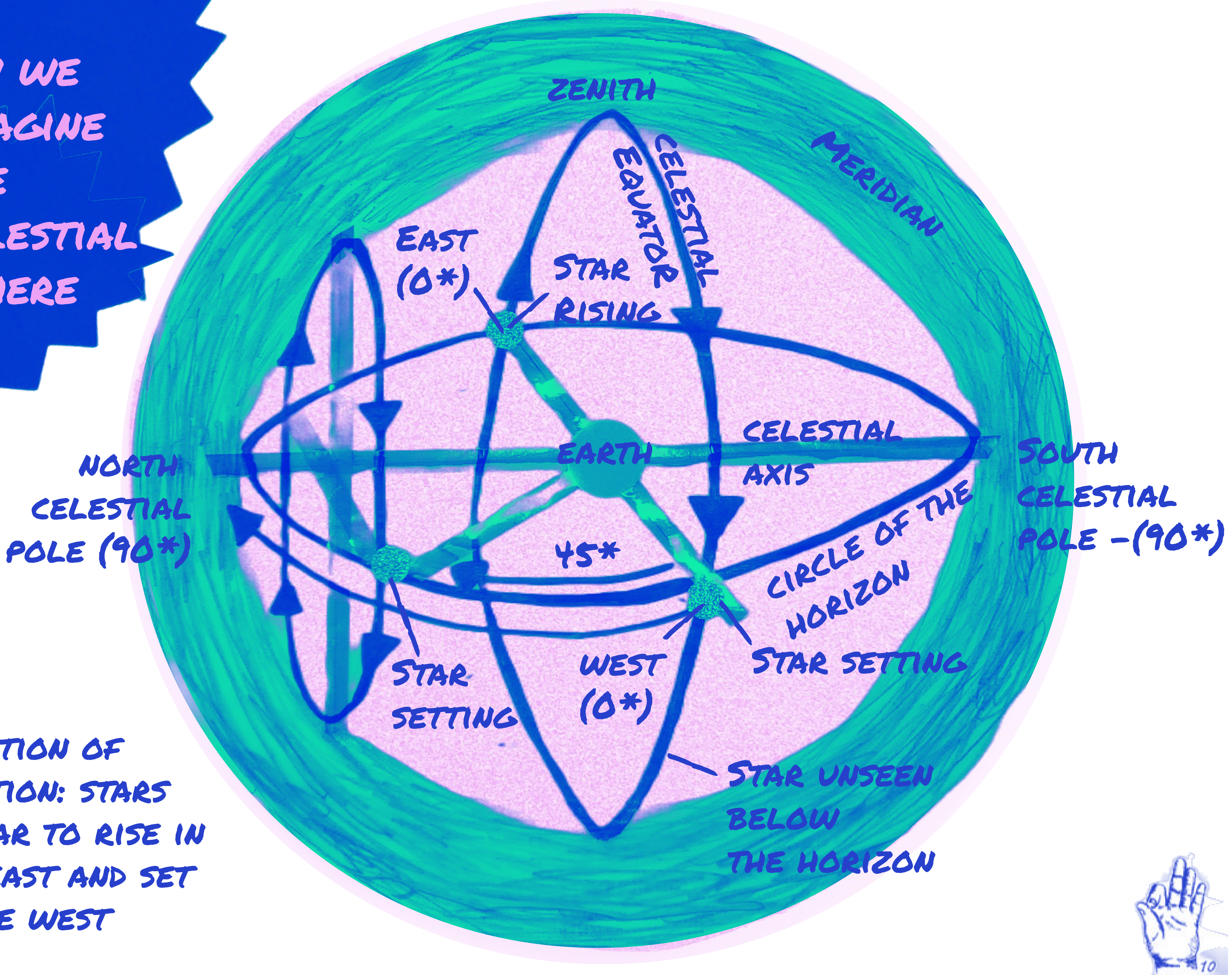
HOW THE EARTH'S AXIAL TILT CAUSES SEASONS



How a planet moves across the sky



HOW WE IMAGINE THE CELESTIAL SPHERE



DIRECTION OF ROTATION: STARS APPEAR TO RISE IN THE EAST AND SET IN THE WEST

KEY IDEAS

THE SUN, MOON AND EARTH ARE SIGNS OF TIME, BUT THEY DO NOT MAKE TIME

MEASUREMENT IS FUNDAMENTAL TO "CIVILIZATION"*

TIME AND OBJECTS ARE REAL, THEIR MEASUREMENT IS IMAGINED

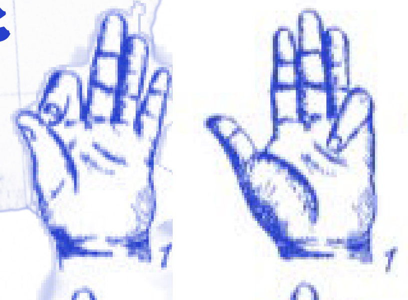
=

THE NEED FOR EXPLICIT SCHEMES

FOR

TIMEKEEPING AND MEASUREMENT

TO DEVELOP THE CULTURE AND SHARE KNOWLEDGE



* "CIVILISATION" = STILL TO BE DEFINED

CALENDARS

=

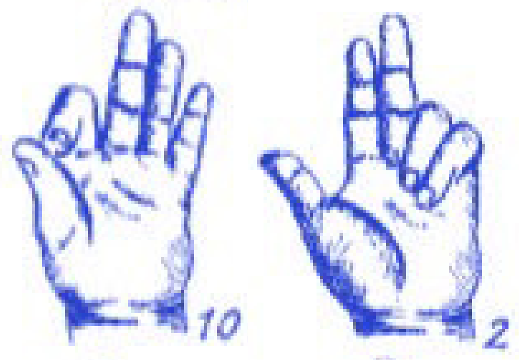
CLOCKS

=

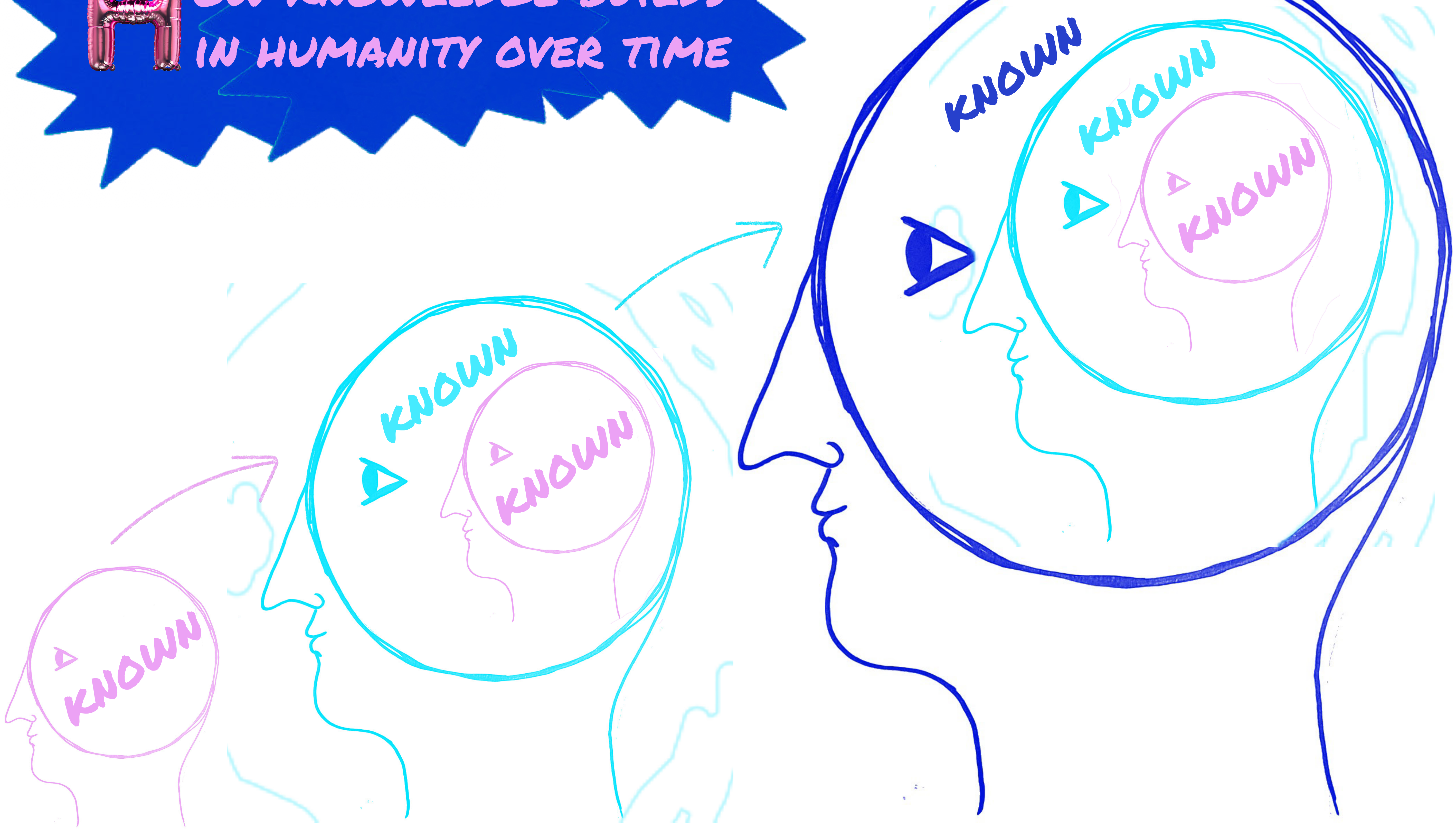
CIVILISATION

or

CAPITALISM/COLONIALISM



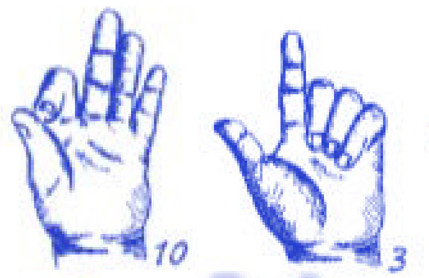
How knowledge builds in humanity over time



KNOWLEDGE

*Knowledge needs to be passed on over time to advance humanity

TIME



How
TIME
WORKS

TIME

=

EVENTS AND EXISTANCE IN CONTINUOUS SEQUENCE

IN SUCCESSION FROM

NON REVERSIBLE

PAST

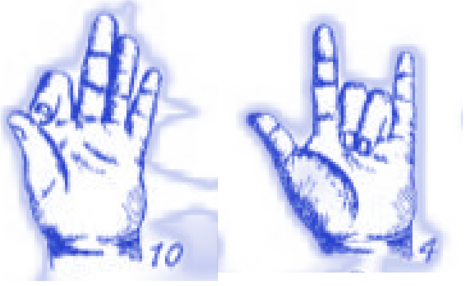
THROUGH

PRESENT

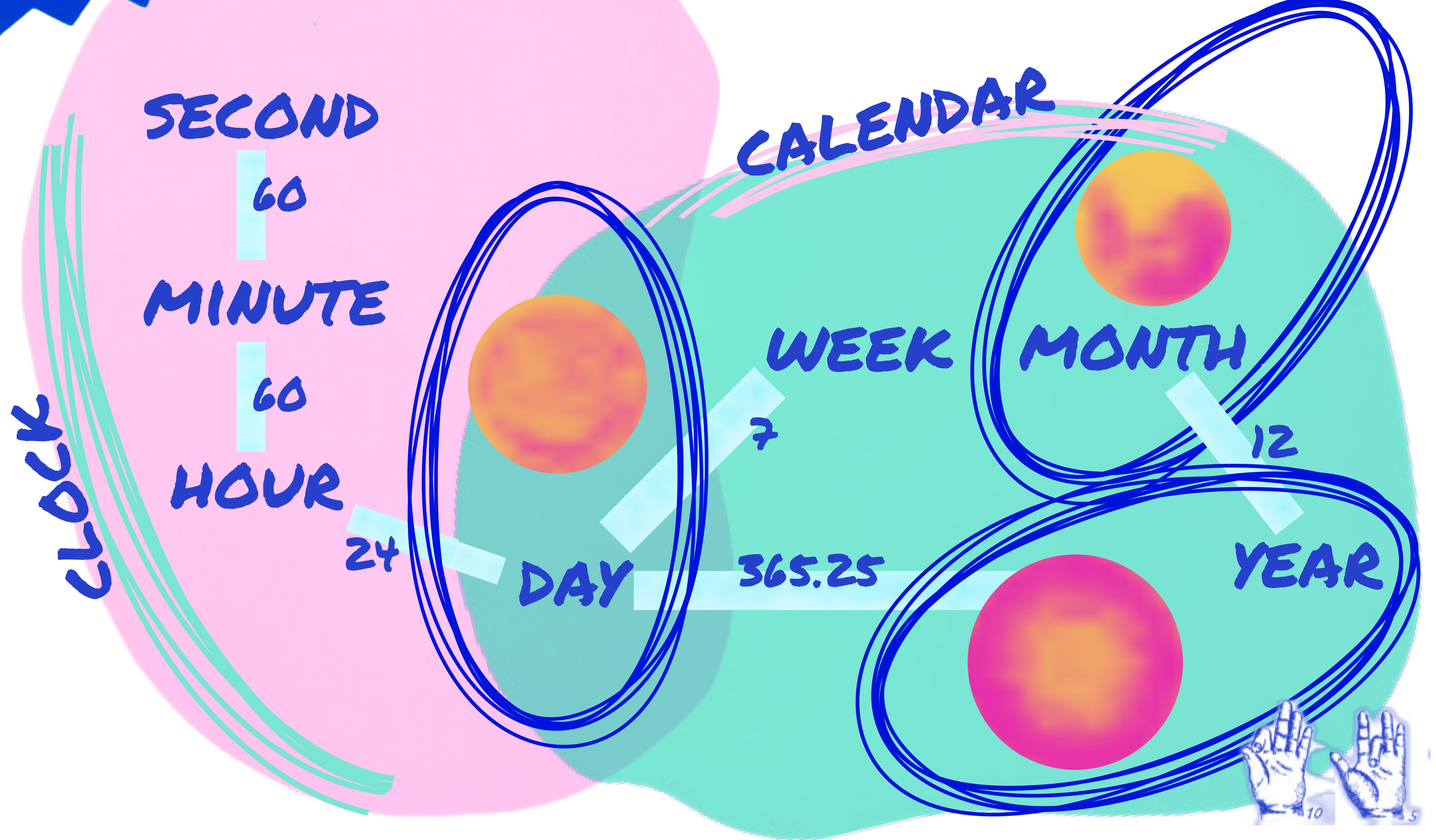
• ALSO CONTINUOUS

INTO

FUTURE



How time is organised



HOW TIME IS REAL BUT ITS MEASUREMENT IS IMAGINED

REAL

DAYS - The sun rises + sets
Light + dark

THE MENSTRUAL CYCLE

MOON PHASES

MOON ORBIT - Moon moves in the sky

SEASONS - weather changes

EARTH'S ROTATION

EARTH'S ORBIT AROUND THE SUN

EQUINOX

LONGEST + SHORTEST DAY

DECAY + GROWTH

HUMAN GESTATION

NOT REAL /Imagined

HOURS, MINUTES, SECONDS

DAYS OF THE WEEK

WEEKENDS

CALENDAR MONTHS

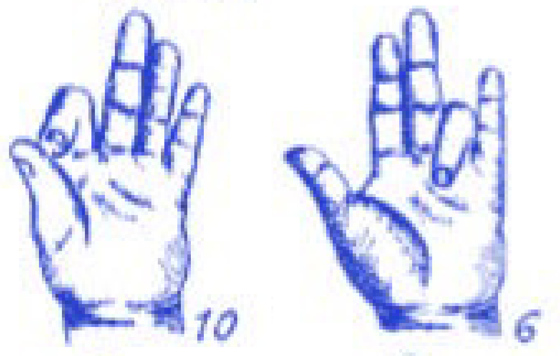
WEEKS

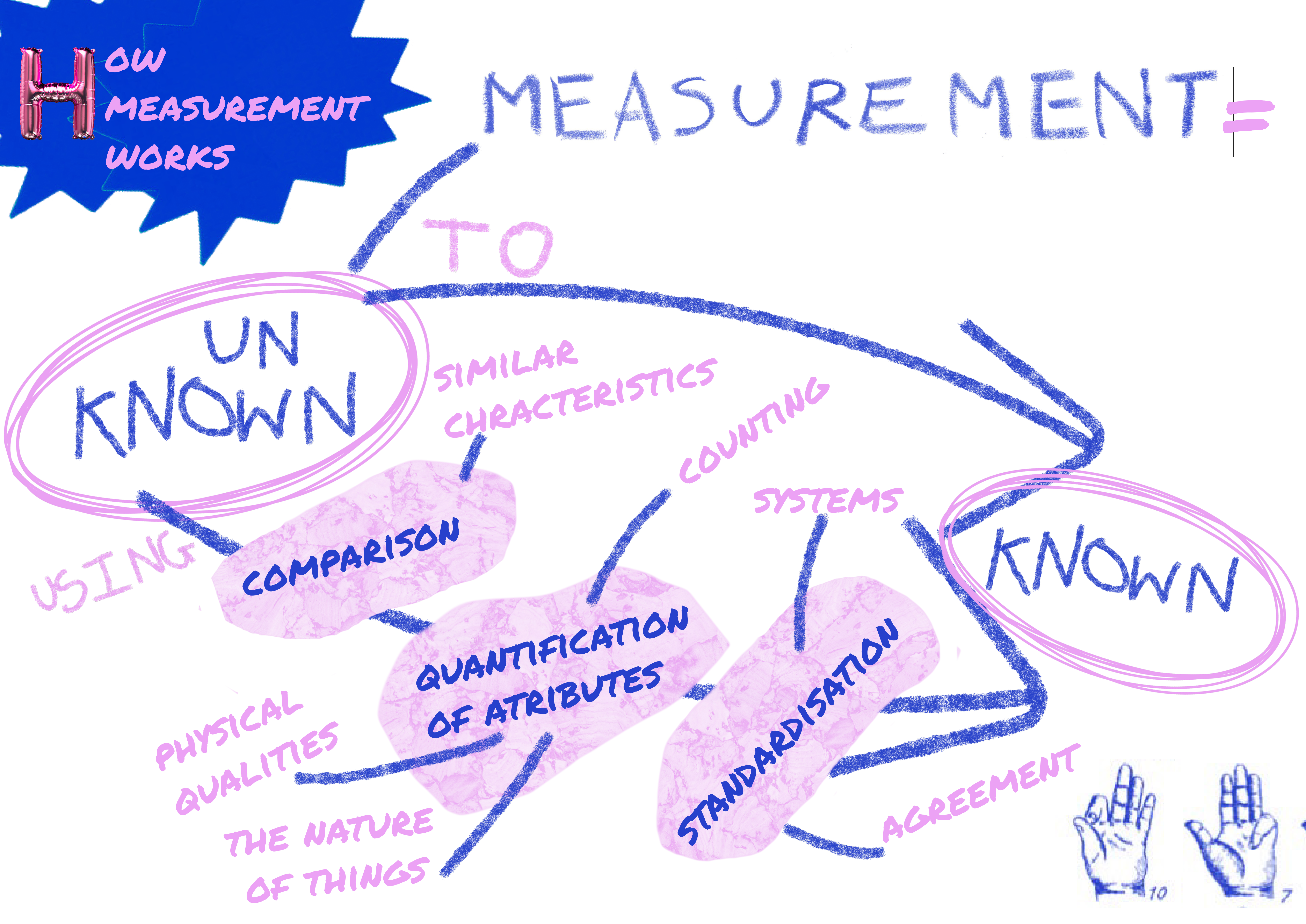
DATE OF THE YEAR

NEW YEAR - From when, when is the start?

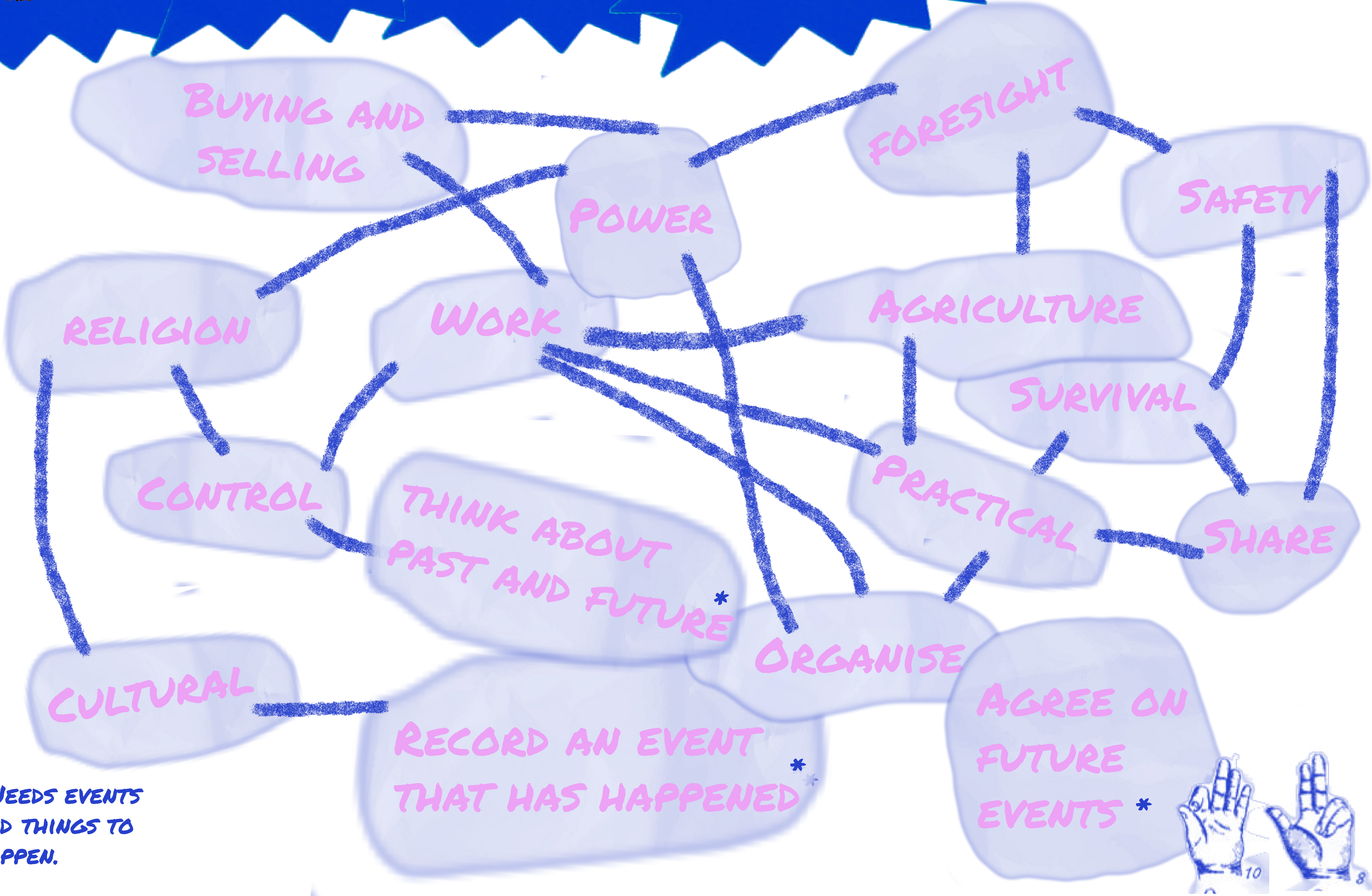
PUBLIC HOLIDAYS

NAMES OF DAYS




HOW MEASUREMENT WORKS
MEASUREMENT =
UNKNOWN
TO
KNOWN
USING
SIMILAR CHRACTERISTICS
COUNTING
SYSTEMS
COMPARISON
QUANTIFICATION OF ATRIBUTES
STANDARDISATION
PHYSICAL QUALITIES
THE NATURE OF THINGS
AGREEMENT
10
7

How a calendar is an explicit scheme for time keeping and how it can be used



*Needs events and things to happen.